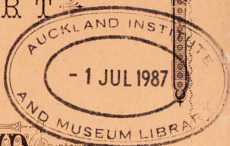


AIM Ann Report
1882 to 1883

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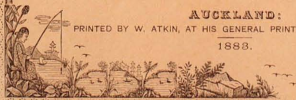
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FOR 1882-83.

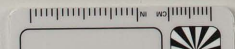
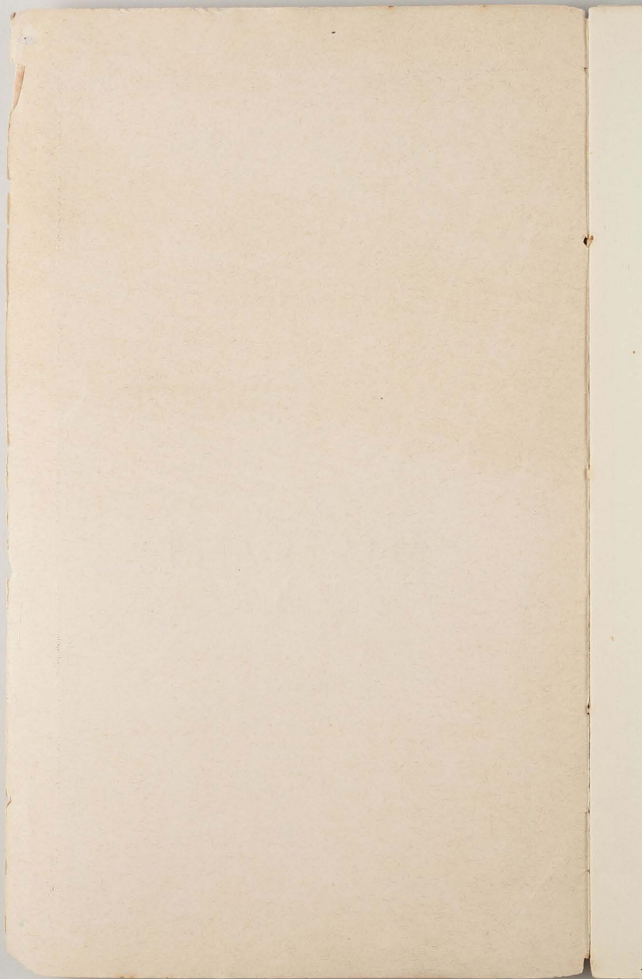
ADOPTED AT ANNUAL MEETING HELD FEBRUARY 19, 1889.

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1888.



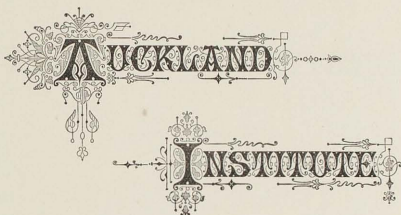
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1882 to 1883



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1882 to 1883

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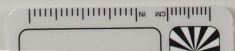
ADOPTED AT THE ANNUAL MEETING HELD FEBRUARY 19, 1883.

AUCKLAND:

PRINTED BY W. ATKIN, AT HIS GENERAL PRINTING OFFICE, HIGH STREET.

1883.

AIM Ann Report
1882 to 1883



OFFICERS
OF THE
AUCKLAND INSTITUTE.

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The Right Rev. W. G. COWIE, D.D., Bishop of Auckland.

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E. A. MACKECHNIE, Esq.

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T. F. CHEESEMAM, Esq., F.L.S.

AUDITOR:

T. MACFARLANE, Esq.

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THE FOLLOWING MAGAZINES AND PERIODICALS ARE CIRCULATED
AMONGST THE MEMBERS:

Quarterly Journal of Microscopical Science
Journal of Science
Popular Science Review
Nature
Geological Magazine
Lancet
Scientific American
The Academy
Knowledge
Botanical Magazine
Gardener's Chronicle
Chemical News
Engineering
Science Gossip
Electrical and Telegraphic Review
Journal of the Society of Arts
Annals and Magazine of Natural History
New Zealand Journal of Science

WINTER SESSION, 1883.

MEETINGS WILL BE HELD ON THE FOLLOWING MONDAY EVENINGS:

June 4th	September 3rd
July 2nd	October 1st
August 6th	October 29th

To Commence at 7.30 p.m.

REPORT.

IN compliance with the Rules, the Council have now to present to the members a Report on the general condition of the Institute, and its progress during the past year.

Members.—34 new members have been added to the roll since the last annual meeting. In the previous year the elections numbered 48. The Council have to regret the loss of one member,—the Rev. S. Edger,—by death. Six resignations have been received, and in addition it has been found necessary to remove eight names on account of non-payment of subscription for two consecutive years. The total number on the roll at the present time is 321, shewing a net increase of 19 during the year. It is satisfactory to note that the Auckland Institute still holds the leading position among the incorporated Societies so far as regards the number of members.

Finances.—The annexed balance-sheet shews the total revenue from all sources to have been £403 8s. 1d. The members' subscriptions have yielded the sum of £317 2s., being under the amount received last year, which was increased by the payment of several life compositions. The actual number of yearly subscriptions received is, however, greater than in any previous year. The expenditure amounts to £397 8s. 6d., leaving a small credit balance of £5 19s. 7d.

Meetings.—Seven meetings have been held during the session, at which the following papers were read and discussed:—

1. Introductory Address :—by the President (E. A. MACKECHNIE, Esq.)
2. On some recent additions to the Flora of New Zealand :—by T. F. CHEESEMAM, F.L.S.
3. Additions to the *Geodephaga* of New Zealand :—by Capt. T. BROWN, M.E.S.
4. Protective Resemblances among New Zealand Spiders :—by A. T. URQUHART.
5. New Species of *Pselaphidae* :—by Capt. T. Brown.
6. Notes on the Origin of Language :—by H. G. SETH SMITH.

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7. New Genera and Species of *Heteromera* :—by Capt. T. BROWN.
8. On some new species of New Zealand Plants :—by T. F. CHEESEMAN, F.L.S.
9. Further experiments with Sorghum :—by Mr JUSTICE GILLIES.
10. On the Effect of School Life on the Sight :—by B. SCHWARTZBACH, M.D.
11. On the growth of the Cork Oak in the Province of Auckland :—by Mr JUSTICE GILLIES.
12. New Species of *Curculionidæ* :—by Capt. T. BROWN.
13. The New Zealand University—its History, Constitution, and Objects :—by the Right Rev. W. G. COWIE, D.D.
14. New Species of Coleoptera :—by Capt. T. BROWN.
15. On Two New Planarians from Auckland Harbour :—by T. F. CHEESEMAN, F.L.S.
16. Shakespeare and Euphuism :—by J. MURRAY MOORE, M.D.
17. New Species of Coleoptera :—by Capt. T. BROWN.
18. Note on the Origin of the Boomerang :—by W. D. CAMPBELL, F.G.S.
18. On the occurrence of Platinum in Quartz Lodes at the Thames :—by J. A. POND.
20. The Visionary Faculty of Mind :—by E. A. MACKECHNIE.
21. The Naturalized Plants of the Auckland Provincial District :—by T. F. CHEESEMAN, F.L.S.
22. Our Earliest Settlers :—by R. C. BARSTOW.
23. Imaginary Quantities :—by H. G. SETH SMITH.

These papers have been forwarded to the Manager of the New Zealand Institute, and most of them will appear in the forthcoming volume of "Transactions."

Museum.—The attendance of visitors at the Museum has increased considerably during the year, but in the absence of any recording mechanism it is impossible to estimate the number, even approximately. The largest daily attendance is believed to have been on May 24th (Queen's Birthday), when over 1000 persons were counted to enter the building. It may be mentioned that the Museum has been kept open on all holidays, except Christmas Day and New Year's Day, and that large numbers have regularly availed themselves of this privilege. The Council regret that from want of funds they have been unable to provide new show cases and other fittings, now

very urgently required. From the same reason it has been impossible to retain the services of a taxidermist, and with the exception of a temporary engagement with a competent osteologist, through which a few excellently prepared skeletons have been added to the collections, little has been done towards working up the large number of specimens received by exchange during the last few years, and now lying packed away in drawers.

The additions to the Natural History department have not been so large or so valuable as in the two previous years. Those of special interest will be briefly mentioned here :—

Vertebrata.—In this division the principal items are a series of 140 skins of mammals, birds, and reptiles, forwarded in exchange by Dr Garnier, Lucknow, Canada; and a set of 20 Trogons, obtained in a similar manner from the Hon. R. Cholmondely. A few contributions have been made to the collection of New Zealand birds, among which may be mentioned an example of *Procellaria Cooki* presented by Mr A. Reischek, and some interesting specimens obtained through the kind offices of Messrs F. H. Combes and E. A. Plumley. In the Fishes, the only additions of importance are a fine specimen of *Ceratodus* received in exchange from Professor H. A. Ward, and an example of the sword-fish (*Xiphias gladius*) stranded near the Kawau, and kindly forwarded by Mr S. T. George, M.H.R. The skeleton of this has been roughed out, and will be cleaned and mounted as soon as funds are available.

Invertebrata.—Among the chief collections are 120 species of land-shells from South Europe and North Africa, received in exchange from Dr Kobelt, Frankfort on the Maine, and 100 species of Australian land and marine shells forwarded by Dr Cox, Sydney. The collection of New Zealand shells has received several small additions, and a commencement has been made towards forming a type set of the Crustacea. In the insects nothing has been done, owing to the total absence of suitable cabinets for the reception of the specimens. It is to be hoped that this want will be supplied during the coming year, and that some progress may be made towards forming a type collection of the New Zealand species.

Geology and Mineralogy.—Thanks are due to Mr J. T. Mackelvie, whose name has so often appeared in these reports as a contributor to the Museum, for a set of 48 specimens of marbles and fluor-spars, purchased at the sale of the late Professor Tennant's collections in London. The Museum is also indebted to Mr T. P. Moody for a large suite of specimens of ambrit from the Kawakawa Coal Mines, and for some other minerals of interest. An exchange of Saurian remains and fossil fishes from the Tertiaries of Western Kansas, forwarded

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by Professor Snow of the Kansas University, is the only noteworthy addition in paleontology.

Ethnology.—A further instalment of articles from the Swiss Lake Dwellings has been contributed by Mr J. T. Mackelvie, also a number of arrow-heads, &c., from North America. Some human crania from the New Hebrides, and an instructive collection of Fijian pottery, both deposited by Captain G. Mair, deserve special mention. Thanks are also owing to Mr A. Shand, of Chatham Island, for four remarkably fine Moriori crania presented by him.

Herbarium.—Sufficient cabinet accommodation having been at last provided, it is intended to entirely re-arrange and largely add to the collection of New Zealand plants, and a large number of specimens, from all parts of the colony, has been presented by the Curator for this purpose.

Art Collections.—In the report for last year the Council had the pleasure of drawing attention to an extremely valuable donation of paintings made to the citizens of Auckland by Mr J. T. Mackelvie, and placed under the care of the Institute. It is now their duty to record further signal instances of liberality on the part of the same gentleman. Seven oil-paintings—all of undoubted merit as works of art—have been forwarded by him during the year. As in the former case, these are absolutely gifted to the people of Auckland, but are deposited in the Museum on the understanding that it shall be in the power of the donor to withdraw them if at any future time a building more especially devoted to Art should be erected in Auckland. Within the limits of this report it is impossible to give a description of the paintings; nor is this required, full particulars having appeared in the daily Press. Three—The Martyrdom of St. Sebastian, and the Infant Christ, both by Guido; and Joseph receiving his brethren, by Pontormo,—were purchased at the now celebrated sale of the Duke of Hamilton's collections, and would claim a place in any European art gallery. Of the remaining four, one is by the well-known painter Van Luppen, the three others by Stanfield, Morgan, and Maccallum—all artists of considerable repute. Taking the pictures together with those previously forwarded, they form an excellent and well-selected nucleus for an Art Museum; and the Council trust that Mr Mackelvie's munificent donations, always tendered in the most graceful manner, will long remain in the remembrance of the people of Auckland.

In connection with this subject it should be stated that the Free School of Art, established by Dr Campbell, has been regularly kept up during the year. There has been a fair attendance of students, and steady progress appears to be made.

Endowment.—Early in the year the Council addressed the Government on the question of the Museum endowment, and received a promise that a Bill should be introduced into Parliament during its next session. This was done by the Minister of Lands, the Hon. Mr Rolleston, for whose active support and sympathy the Institute is much indebted. The Bill met with some opposition in the Lower House, but thanks to the assistance rendered by the Auckland members of Parliament, particularly Mr Peacock, who was indefatigable in his exertions, it was carried safely through all its stages, and is now placed on the Statute Book. It provides for a landed endowment of the capital value of £10,000; and although such endowments are not so readily available here as in the southern portion of the colony, still, if the lands are well selected and judiciously leased or sold, no long period should elapse before the Museum receives a substantial addition to its revenue. The Council have quite lately been in communication with Mr Rolleston respecting the selection of the lands, and it is understood that this will soon be completed, and the lands gazetted. The Council have to congratulate the members on this successful termination of a matter that has long engaged their attention, and which, in justice to Auckland, ought not to have been overlooked for so long a period.

Library.—The catalogue of the Library, alluded to in last year's report as being in preparation, has been completed and issued to the members. Through want of funds, but few purchases have been made during the year; but the donations have been unusually extensive and valuable. First should be mentioned a second consignment of books relating to New Zealand, numbering 110 volumes, presented by Mr J. T. Mackelvie. This donation, added to the one received last year, makes the collection of works on New Zealand in the Library of the Institute by far the most complete in the colony; and a debt of gratitude is due to the munificent donor, who has spared neither time nor money in making it as perfect as possible. Its value will be better estimated in a few years' time than at present. To Mr Justice Gillies the Institute is indebted for a contribution of 103 volumes of Blue Books, reports, &c., relating to the legislative and political history of the colony, and which will be very useful as supplementing Mr Mackelvie's collection. The Hon. Mr Chamberlin has also presented 40 volumes of similar publications, and a number of works on general subjects. In addition to the books on New Zealand, Mr Mackelvie has also forwarded some 20 volumes on miscellaneous subjects, all being valuable additions to the Library. The Council would particularly mention the first two volumes of the Scientific Report of the Challenger Expedition as a most welcome contribution.

Conclusion.—Before concluding this report, the Council

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wish to tender the thanks of the Institute to the numerous donors to the Museum and Library not mentioned in the body of the report, but whose names will be found in the appended list. They would also again draw attention to the continued services of Mr W. K. Graham as the London agent of the Society, and to those of Mr H. Craig in a similar capacity at San Francisco. The renewed thanks of the Institute are also due to the Pacific Mail Steamship Company, the New Zealand Shipping Company, Messrs Shaw, Savill, & Co., and many local establishments, for the free carriage of all packages intended for the Museum, and for the exchanges forwarded by it.



The Treasurer in Account with the Auckland Institute.

Dr.

FEBRUARY 13, 1882, TO FEBRUARY 13, 1883

Cr.

	£	s.	d.		£	s.	d.
Balance in the Bank of New Zealand, February 13, 1882	10	1	1	Books and Periodicals	44	1	5
Entrance Fees and Subscriptions	317	2	0	Additions to Museum, New Fittings	20	8	0
Rents	56	5	0	Museum Requisites, Stationery, Printing, Advertising,			
Special Subscriptions and Miscellaneous Receipts	20	0	0	Postage, Gas, Insurance, &c.	72	5	1
				Curator	150	0	0
				Taxidermist	32	0	0
				Messenger, cleaning, and attendance	60	0	0
				Miscellaneous Payments	12	14	0
				Balance in the Bank of New Zealand, February 13, 1883	5	19	7
	£403	8	1		£403	8	1

INVESTMENT FUND ACCOUNT.

	£	s.	d.		£	s.	d.
Cash in Auckland Savings Bank, February 13, 1882	66	4	7	Cash in Auckland Savings Bank, February 13, 1883	69	10	7
Interest to December 31, 1882	3	6	0				
	£69	10	7		£69	10	7

I have compared the above statement with the Books and Vouchers, and have found it to be correct,

Auckland, February 13, 1883.

T. F. CHEESEMAN, TREASURER

THOS. MACFFARLANE, AUDITOR.

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ADDITIONS AND DONATIONS
TO THE
LIBRARY AND MUSEUM.

- Official Report of the Sydney Exhibition; Colonial Museum and Laboratory Report for 1881; Reports on Geological Explorations during 1881; Buller's Manual of the Birds of New Zealand:—The Director of the Geological Survey.
- Parliamentary Papers and Reports; New Zealand Hansard for 1882; Statistics of New Zealand for 1881:—The New Zealand Government.
- Statistics of Tasmania for 1881; Walch's Tasmanian Almanac:—The Colonial Secretary, Tasmania.
- Journal of the Royal Society of New South Wales, vol 15; Report of the Department of Mines for 1881; New South Wales in 1881:—The Royal Society of New South Wales.
- The Mineral Products of New South Wales:—The Colonial Secretary, N.S.W.
- Proceedings of the Linnean Society of New South Wales, parts of vols 6 and 7:—The Society.
- Journal of the Royal Society of South Australia, vol 5:—The Society.
- Progress Report of the Geological Survey of Canada for 1879-80:—The Geological Survey.
- Bulletin of the American Museum, New York:—The Museum.
- Burmeister's Physical Description of the Argentine Republic, 5 vols, with Atlas of Plates; Gould's Meteorologica Argentina:—The Municipal Government of Buenos Ayres, per M. Ricardo Newton.
- Complete Set of the Sunday Review:—The Sunday Society, London.
- McGillivray's Conchologist's Text Book; New South Wales Gazetteer; Statistical Register of Victoria:—E. A. Mackechnie.
- Muter's Analytical and Theoretical Chemistry; Muter's Organic Materia Medica:—The Author.
- Merrifield's Art of Fresco Painting:—Mrs Williams.
- 103 Volumes Parliamentary Papers, Reports and other publications relating to the Legislative and Political History of New Zealand:—Mr Justice Gillies.
- 40 Volumes Parliamentary Papers and Reports relating to New Zealand; Universal Dictionary of Biography, 10 vols; Pantologia, 10 vols; 22 Pamphlets:—Hon. H. Chamberlin.
- Imperial Papers on the Affairs of New Zealand; London Magazine for 1733; History of the Rebellion of 1837; Canadian Debates:—Hon. Colonel Haultain.
- Morse's Shell Mounds of Omori, Japan; Three Ethnological Pamphlets:—Professor Morse, per Miss Webb.
- Meteorological Pamphlets and Reports:—E. B. Dickson.

Books relating to New Zealand, presented by J. T. Mackelvie, Esq.:—

- De Brosse's Terres Australes, 2 vols, 1756.
- Dalrymple's Scheme of a Voyage to New Zealand, with Dr Benjamin Franklin's Sentiments, 1771.

- Bligh's Mutiny of the Bounty, 1790.
Wilson's Voyage of the Duff, 1799.
Barrington's New South Wales, 2 vols, 1810.
Berry's Wreck of the Boyd, 1827.
Dillon's Fate of La Perouse, 2 vols, 1829.
Beechy's Voyages to the Pacific, 2 vols, 1831.
Busby's Information on Australia and New Zealand, 1832.
Wakefield's England and America, 1833.
British Colonization of New Zealand, 1837.
Evidences on the Aborigines of New Zealand, 1837.
Voyages of the Adventure and Beagle, 4 vols, 1839.
Matthew's Emigration Fields, 1839.
Mann's Australian Provinces and New Zealand, 1839.
Bennett's Whaling Voyage to the South Seas, 2 vols, 1840.
Rudge's Address to Emigrants, 1840.
New Zealand Company's First Report, 1840.
Campbell's State and Prospects of New Zealand, 1840.
Ward's Information on New Zealand, 1840.
Ward's Supplementary Information on New Zealand, 1840.
Johnson's Plain Truths on New Zealand, 1841.
Bidwill's Rambles in New Zealand, 1841.
Heaphy's New Zealand, 1842.
Information from New Plymouth, 1842.
New Zealand Portfolio, 1842, containing:—Chapman on the Administration of Justice in New Zealand, Chapman's Address to New Zealand Land Proprietors, Terry's Financial Condition of New Zealand, Holroyd on Banking in New Zealand, Chapman's Representative Assembly for New Zealand.
Dillon Bell and F. Young on New Zealand Flax, 1842.
Fox's Colonization of New Zealand, 1842.
New Zealand, a Poem by Etonian, 1842.
Voyages since Cook, 1843.
Letters from New Zealand, 1843.
Letters from the Bishop of New Zealand, 1843.
Martin's New Zealand.
Fitzroy's Remarks on New Zealand, 1846.
Majoribank's Travels in New Zealand, 1846.
Raoul's Choix des Plantes de Nouvelle Zelande, 1846.
Considerations on New Zealand, by the Aborigines Protection Society, 1846.
Ross's Antarctic Voyages, 2 vols, 1847.
Byron's Twelve Years in British Colonies, 1848.
Wakefield's Art of Colonization, 1849.
Earp's Handbook to the Southern Settlements of New Zealand, 1840.
Guide to Bree's Panorama of New Zealand, 1849.
Mill's Colonial Constitutions, 1850.
Mantell on the Geology of New Zealand, 1850.
Canterbury Papers, Nos. 1 to 12, 1850-52.
Cheever's Island World of the Pacific, 1851.
McGillivray's Voyage of the Rattlesnake, 2 vols, 1852.
Hughes' Australian Colonies and New Zealand, 1852.
Earl Grey's Colonial Policy, 2 vols, 1853.
Erskine's Islands of the Western Pacific, 1853.
Farmer's Tonga and the Friendly Islands, 1855.
Strachan's Life of the Rev. S. Leigh, 1855.
Fitton's New Zealand, 1856.
Paul's Letters from Canterbury, 1857.
Howitt's Colonization and Christianity, 1858.
Life of Marsden, 1858.
Fuller's New Zealand, 1859.
Wilson's Rambles at the Antipodes, 1859.
Fox's War in New Zealand, 1860.

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Williams' Fiji and the Fijians, 1860.
 Martin's The Taranaki Question, 1861.
 Martin's Remarks on Notes on the Taranaki Question, 1861.
 Gilbert's New Zealand Settlers and Soldiers, 1861.
 Voices from Auckland, 1862.
 Hodder's Memories of New Zealand, 1862.
 Butler's Canterbury Settlements, 1863.
 Life of the Rev. Mr Bumby, 1864.
 Stack's Views of Auckland, 1864.
 Martin's Travels in New Zealand, &c., 1864.
 Coleman's Life of the Rev. Mr Davis, 1865.
 Howitt's Discovery of Australia and New Zealand, 2 vols, 1865.
 Alexander's Notes on the Maoris, 1865.
 Busby's Colonial Empire in New Zealand.
 Pritchard's Polynesian Reminiscences, 1866.
 William's Christianity in New Zealand, 1867.
 Wakefield's Founders of the Canterbury Settlement, 1868.
 Adderly's Colonial Policy of Earl Grey, 1869.
 Lady Barker's Station Life in New Zealand, 1870.
 Turner's Pioneer Missionary in New Zealand, 1872.
 Baden-Powell's New Homes in Australia and New Zealand, 1873.
 Lady Barker's Station Amusements in New Zealand, 1873.
 Evan's Over the Hills and Far Away, 1874.
 Wilson's Ancient Maori, 1874.
 Maning's Old New Zealand and the War with Heke, 1876.
 Buller's Forty Years in New Zealand, 1876.
 Gill's Myths and Songs of the Pacific, 1876.
 Fornander's The Polynesian Race, 2 vols, 1878-80.
 Barry's Fifty Years in New Zealand, 1879.
 Crawford's Recollections of Travel in New Zealand, 1880.
 Senior's Travel and Trout at the Antipodes, 1880.
 Stewart's Te Puke Settlement, 1880.
 Fitzgibbon Louch's Description of New Zealand, 1880.

Books on Miscellaneous Subjects, presented by J. T. Mackelvie, Esq.:—
 Report of the Scientific Results of the Challenger Expedition, Zoology,
 volumes 1 and 2
 Darwin on Vegetable Mould and Earth-worms.
 Catalogue of the Goddefroy Museum.
 Deterioration of Oyster and Trawl Fisheries.
 The Orkneyinga Saga.
 The Longevity of Man.
 Lands and their Owners in Gallaway, 5 vols.
 Five Years Penal Servitude.
 Forster's Life of Dickens. 3 vols.
 Rink's Danish Greenland.
 Proceedings of the Geographical Society for 1883.

Seven Oil Paintings:—The Martyrdom of St. Sebastian, by Guido; Infant
 Christ on the Cross, by Guido; Joseph Receiving his Brethren, by
 Pontorno; Sunset Effect on Firtrees, by Von Luppen; The School-
 mistress's Birthday, by Morgan; Landing for Water, by Hamilton
 Maccallum; View on a Lake in North Italy, by G. C. Stanfield:—
 Presented to the Citizens of Auckland, by J. T. Mackelvie, Esq.

140 Skins of Mammals, Birds and Reptiles:—Received in exchange from Dr.
 Garnier, of Lucknow, Canada.
 21 Skins of Trogons and other birds:—In exchange from the Hon. R. Chol-
 mondely, London.

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10 Bird Skins from the Solomon Islands :—Rev. G. Brown, C.M.Z.S.
 5 Bird Skins from Burmah :—
 100 New Zealand Bird Skins :—Purchased.
 New Zealand Bird Skins, English and New Zealand Birds' Eggs :—E. A. Plumley.
 Specimen of *Procellaria Cooki* :—A. Reischek.
 New Zealand Bird Skins ; Skin of White Swan :—F. H. Combes.
 Skin of Australian Black Swan :—J. Sinclair.
 Skin of *Eurystomus pacificus* ; Eggs of White-eye (*Zosterops*) :—W. D. Campbell.
 Young Nestlings of the Diving Petrel :—Capt. Fairchild.
 Six Penguins, Eggs of Penguin, Tern, and other Sea Birds :—P. S. Sandager.
 Australian Honey-eater (*Acanthorhynchus*) :—Dr J. Murray-Moore.
 Long-tailed Cuckoo (*Eudynamis*) :—R. Gwynne, C. Harker.
 Skin of *Prion Banksii* :—J. Harding.
 Nest of Grey Warbler :—F. A. Clarke.
 Nests and Eggs of New Zealand Birds :—J. Symonds.
 Skin of North Island Weka (*Ocydromus*) :—J. Mayo.
 Skin of Black Stilt-Plover :—T. H. Webb.
 Sword-fish (*Xiphias gladius*) :—S. T. George, M.H.R.
Ceratodus Fosteri :—Professor H. A. Ward (exchange).
 Trigger Fish :—S. M. Herapath.
 Fishes from Samoa :—Captain Lane.
 Ribband Fish :—A. P. Campbell.

120 Species of Land Shells from S. Europe and N. Africa :—In exchange from Dr Kobelt, Frankfurt on the Maine.
 100 Species of Land and Marine Shells :—Dr Cox, Sydney.
 New Zealand and Foreign Shells :—Mr Justice Gillies.
 New Zealand Shells :—Professor F. W. Hutton.
 New Zealand Shells :—T. F. Cheeseman.
 New Zealand Shells :—E. R. Ruddle.
 Cuttle-fish (*Onychoteuthis*) :—Dr Guppy, H.M.S. Lark.
 Fresh-water Crab and Shrimps, Fresh-water Shells :—J. T. Jagger.
 Foreign Shells :—H. Winkelmann.
 Swimming Crab from Fiji :—H. Sloane.
 Specimen of *Gorgonia sp.* :—Rev. S. Baker.

New Zealand Dried Plants :—T. F. Cheeseman.
 New Zealand Alpine Plants :—Dr Hector.
 48 Specimens of Marbles and Fluor Spars :—J. T. Mackelvie.
 Numerous Specimens of Ambrist, Calcite, Silicified Wood, etc. :—T. P. Moody, Kawakawa Coal Mines.
 Large Block of Manganese Ore :—J. A. Pond.
 Gold Specimen from Te Aroha :—Ryan.
 Auriferous Quartz from Te Aroha :—A. Porter.
 Cape Diamond :—Sir J. Vogel, K.C.M.G.
 Cape Diamond :—Mrs J. M. Dargaville.
 Copper and Galena from Coromandel :—J. Boyd.
 Graphite from Coromandel :—J. Appleby.
 Coal, Rock Specimens, &c., from the Kamo Mines, Whangarei :—J. Bennett.
 Rock Specimens from the Great Barrier Island :—C. Winkelmann.
 Sulphur from White Island, Acid-proof Cement manufactured from White Island materials :—J. A. Wilson.
 Septaria from the East Cape :—J. A. Walker.
 Jasperoid Quartz, Silicified Wood :—J. B. Simpson.
 Silicified Wood :—A. Gray.
 Silicified Wood :—S. Weetman.
 Volcanic Bomb :—Col. Haultain.
 Kauri Gum and Charcoal found below a lava stream :—R. R. Hunt.

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Fossil Shells from the Wanganui Tertiaries :—S. H. Drew.
Fossils from the London Clay :—J. J. Ogle, per J. Milne.
Large Collection of Bones of Saurians and Fishes from the Tertiaries of Western Kansas :—In exchange from Professor Snow, University of Kansas.

Four Ancient Roman Glass Bottles, numerous Fragments of Roman Glass-ware, Cinerary Urn, &c.; Roman Pottery, Small Roman Oil Lamp; Arrow Heads and Stone Adze from N. America :—J. T. Mackelvie.
Fijian Pottery :—Captain G. Mair.
Two Large Greenstone Adzes; Ordinary Stone Adzes :—P. Lanigan.
Large Stone Mere :—C. Riley.
Maori Stone Adzes :—J. B. Simpson.
Maori Stone Adzes :—A. Nelson.
Calabashes made from the "Hue" Plant :—F. E. Maning.
Stone Flax-beater :—Rev. G. Smales.
Four Clubs, one Spear, from Samoa :—Consul-General Zembsch.

Sugar and Molasses made from the Sorghum Plant in Auckland; Cork grown in Auckland :—Mr Justice Gillies.
Case of Silk Cocoons produced in Canterbury :—Hon. W. Rolleston.
Matting made from Phormium Fibre :—J. Oldham & Sons.
Native-prepared Phormium Fibre :—R. E. M. Campbell.
Large Collection of Kauri Gum :—Deposited by E. Mitchelson, M.H.R.
Portion of the Wreck of the Buffalo :—F. Carina.
Large Collection of Coins :—G. M. Mitford.
One Silver Coin, three Copper Coins :—W. Rattray.
One Copper Coin :—W. Harp.



LIST OF MEMBERS,

For the Year ending March 31, 1883.

[HONORARY AND LIFE MEMBERS DISTINGUISHED THUS *.]

Adams, J., B.A., Thames
Aickin, G., Auckland
Aitken, W., Auckland
Alexander, C., Auckland
Alexander, I., Auckland
Alexander, J. M., Auckland
Allwright, H., C.E., Auckland
Anderson, H. F., Auckland
Anderson, R., Auckland
Anderson, W., Auckland
Atkin, W., Tamaki

Baber, J., C.E., Remuera
Bagnall, L. J., Thames
Baker, Rev. S., Auckland
Ball, T., Onehunga
Ball, W. T., Auckland
Banks, J., Auckland
Barber, H. P., Parnell
Barstow, R. C., Epsom
Bartley, E., Devonport
Bates, Rev. J., Devonport
Batger, J., Auckland
Beere, D. M., C.E., Thames
Beetham, A., Henderson
Berry, W., Auckland
Black, G., Thames
Bourne, C. F., M.A., Auckland
Boylan, J. F., C.E., Auckland
Brett, H., Auckland
Brigham, J. M., Auckland
Brock, A., Auckland
Broun, Capt. T., M.E.S., Howick
Browning, R., Auckland
Bruce, Rev. D., Auckland
Buchanan, John, Auckland
Buchanan, J., Auckland
Buchanan, W., Devonport
*Buckland, A., Auckland
Buckland, W. F., Remuera
Buddle, Rev. T., Epsom
Buddle, T., Auckland
Bull, A., Epsom
Burgess, E. W., Devonport
*Burton, Captain, London
Burton, W., Auckland
Butt, W. A., Maketu

Cameron, R., Auckland
Cameron, W., Remuera
Campbell, H., Auckland
Campbell, J. L., M.D., Auckland
Campbell, W. D., F.G.S., Auckland
Carr, R. C., Remuera
Chamberlin, Hon. H., Parnell
Chambers, J., Auckland
Cheal, P. E., Thames
Cheeseman, T. F., F.L.S., Auckland
Ching, T., Auckland
Clark, A., Parnell
Clark, J. M., Remuera
Clark, M. A., Remuera
Clarke, Ven. Arch. E. B., Waimate
Coates, J., Auckland
Cochrane, W. S., Auckland
Coleman, W. C., Parnell
Combes, F. H., Auckland
Comisky, P., Auckland
Cooke, C. E., Auckland
Coombes, S., Auckland
Compton, F. E., Auckland
Connell, W. H., Auckland
Cooper, C., Auckland
Cooper, T., Auckland
Cowie, Rt. Rev. W. G., D.D.,
Bishop of Auckland
Cranwell, R., Auckland
Cranwell, T., Parnell
Cruckshank, D. B., Auckland

Darby, P., Auckland
Dargaville, J. M., M.H.R., Parnell
Dawson, F. W., M.R.C.S.E., Auckland
Dignan, Hon. P., Auckland
Dobson, Miss, Auckland
Douglas, Sir R., Whangarei
Dowden, W., Auckland
Dufaur, E. T., Auckland
Dufaur, P., Auckland

Earl, W., Ohaewai
Eastman H., Kaipara
Edgelow, Dr, Auckland
Edson, J., Devonport

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Elam, J., M.R.C.S.E., Tamaki
Ellingham, J., Ponsonby
Elliott, W., Auckland
Errington, W., C.E., Auckland
Esam, J. B., Auckland
Ewington, F. G., Auckland

Fairburn, J., Otahuhu
Fallon, D., Auckland
Farmer, J., London
Fenton, F. D., Auckland
Fidler, W., Whangarei
Filder, Captain, Devonport
Firth, J. C., Auckland
Fisher, J., Auckland
Fraser, G., Auckland

Gamble, T. T., Auckland
Garland, H. N., Auckland
George, C. S., Auckland
George, S. T., M.H.R., Kawau
Gibbons, E., Onehunga
Giblin, N., Auckland
Gillies, His Hon. Justice, Auckland
Gittos, B., Auckland
Goldie, D., Auckland
Goldsboro', C. F., M.D., Parnell
Goldsmith, E. C., Tauranga
Goodfellow, W., Otara
Gorrie, W., Auckland
Graham, W. K., London
Green, Major, Auckland
Gray, A., Remuera
Grey, J., Auckland
Grey, C., Auckland
Greenway, J., Russell
Gulliver, Rev. E. H., St. John's College

Haines, C. H., M.D., F.R.G.S., Auckland
Hales, W. P., A.I.C.E., Auckland
Hammond, A. de L., B.A., Parnell
Hammond, W. F., Auckland
Hammer, G. W., Auckland
Hardie, J., Auckland
Harding, S., C.E., Auckland
Harker, N., Auckland
Harrison, E. M., Auckland
Haslett, J., Auckland
Haultain, Hon. Col., Auckland
Hay, D., Parnell
Hay, J., Auckland
Hean, D., Auckland
Heale, T., Parnell
Heath, N., Auckland
Heather, A., Auckland
Hemus, G., Auckland
Henton, J. S., Auckland
Herapath, P., Auckland

Herapath, S. M., Auckland
Hesketh, E., Auckland
Hetley, C. F., Tauranga
Herbert, T., Parnell
Hickson, T. W., Auckland
Hill, W. J., Auckland
Hobbs, R., M.H.R., Pokeno
Holdship, G., Auckland
Honeyman, J. H., M.D., Auckland
Hooper, J. H., M.R.C.S.E., Auckland
Horton, A. G., Auckland
Howard, J., Auckland
Hughes, S. E., Auckland
Hunt, R. R., Auckland
Hurst, W. J., M.H.R., Auckland

Ireland, B., Parnell
Isaacs, A. E., Auckland

Jackson, J. H., Patetere
James, J., Epsom
Johnstone, G., Gisborne
Judd, A., Auckland

Kenderdine, T. B., M.R.C.S.E., Auckland
Kenny, N., Thames
Kensington, W. C., Parnell
Kidd, Rev. R., LL.D., Auckland
Kinder, Rev. J., D.D., Remuera
*Kirk, T., F.L.S., Christchurch
Kissling, G. S., Parnell
Kissling, T., Parnell

Lamb, J., Auckland
Lanigan, Pierce, Auckland
Larkins, F., Remuera
Larkworthy, F., London
Lawry, F., Epsom
*Leaf, C. J., F.L.S., F.G.S., London
Lee, W., M.D., Auckland
Lennox, J. M., Auckland
Leys, T. W., Auckland
Lindsay, J., C.E., Ngaruawahia
Lindesay, T., Onehunga
Lodder, W., Auckland
Luke, S., Otahuhu

MacCormick, J. C., Auckland
Macdonald, A. V., C.E., Auckland
Macdonald, J. E., R.M., Auckland
MacElwaine, J., Newton
Macfarland, R. J., C.E., Ellerslie
Macfarlane, T., Auckland
Mackechmie, E. A., Auckland
*Mackelvie, J. T., London
Mackenzie, D. H., Auckland

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Macky, T., Auckland
MacLaughlin, W., Papatoitoti
Maclean, E., Cambridge
Maclean, J., Tamaki
Macmillan, C. C., Auckland
Macrae, F., Auckland
Macrae, Rev. W., Waipu
Mahoney, T., Auckland
Mair, Capt. G., F.L.S., Tauranga
Mair, R., Whangarei
Mair, Major W. G., Auckland
Maning, F. E., Auckland
Martin, J., F.G.S., Auckland
Masefield, T. T., Auckland
Maunsell, Archdeacon W., Parnell
*Meinertzhagen, F. M., Napier
Melville, T., Auckland
McColl, J., Newmarket
McCullough, W., Auckland
McGregor, A., Auckland
McLaren, J., Thames
Mitford, G. M., Parnell
Moat, W. P., Mahurangi
Moody, T. P., Kawakawa
Moore, J. Murray, M.D., Auckland
Morton, H. B., Auckland
Morrin, T., Auckland
Monro, H. A. H., Parnell
Moss, F. H., M.H.R., Parnell
Mowbray, J. M., Parnell
Murdoch, D. L., Auckland
Murray, T. L., Auckland

Nathan, D., Auckland
Nathan, L. D., Auckland
Nathan, A. H., Auckland
Newman, J., Remuera
Northcroft, H. W., Hamilton

Offer, W. J., Auckland
O'Rorke, Sir G. M., Auckland
O'Sullivan, R. J., Auckland
Owen, G. B., Auckland

Palmer, W. J., Auckland
Parsons, E. B., Auckland
Paul, Rev. Jas., Onehunga
Peacock, T., M.H.R., Auckland
Pierce, G. P., Auckland
Plumley, E. A., Auckland
Pond, J. A., Auckland
Purchas, Rev. A. G., M.R.C.S.E.,
Auckland

Rattray, W., Auckland
Rawlings, M., Parnell
Reid, J., Auckland
Richmond, J., Auckland
Robertson, J., Auckland

Rose, R., Auckland
Runciman, Rev., D. W., Ponsonby
Russell, Jas., Auckland
Russell, J. B., Auckland
*Russell, T., London
Rye, Lewis, Otamatea

Sanders, C. W., Parnell
Saunders, A., Auckland
Scott, W., Paterangi
Sharland, J. C., Auckland
Shera, J. M., Auckland
Shrewsbury, A., Parnell
Sibbin, G., Auckland
Simpson, F., Whangarei
Sinclair, A., Auckland
Smales, Rev. G., East Tamaki
Smith, H. G. S., Auckland
Smith, S. P., F.R.G.S., Parnell
Snow, W. P., Auckland
Spicer, A., Auckland
Stewart, J., C.E., Auckland
Stewart, T. M., Melbourne
Stockwell, W., M.R.C.S.E., Auckland
Stodart, J., Ponsonby
Stodart, Mrs. Ponsonby
Stoddard, Mrs General, Ponsonby
Stone, C. J., Auckland
Stone, C. B., Auckland
Street, C. H., Parnell
Street, F., Auckland

Taylor, A. K., Mount Albert
Taylor, J., Auckland
Thomas, Captain, Coromandel
Thomson, Neil, Mahurangi
Thorne, W., Auckland
*Tinne, H., Liverpool
Tinne, T. F. S., Auckland
Tonks, B., Auckland
Tyler, E. K., Auckland

Upton, J. H., Auckland
Urquhart, A. T., Karaka

Vaile, S., Auckland
Vickers, S., Auckland

Waddel, E. R., Auckland
Wade, H. G., Auckland
Wallis, Rev. Dr, Auckland
Watkins, K., Devonport
Waymouth, J., Auckland
Webb, —, Auckland
Webster, J., Hokianga
Wells, T., Cambridge
*Weetman, S., Auckland
Whitaker, A. E., Auckland

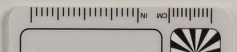
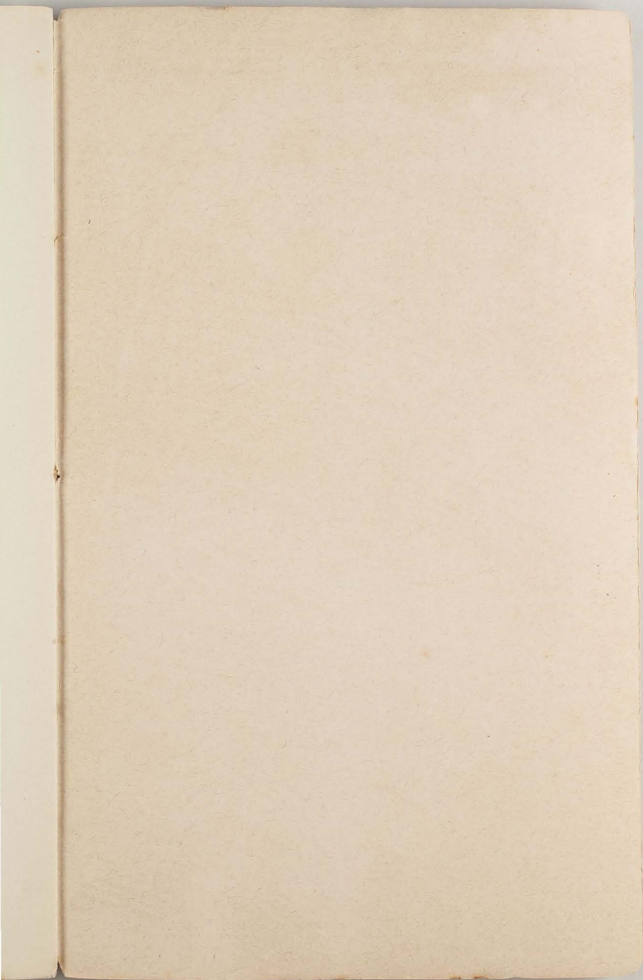
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Whitaker, E. H., Auckland
Whitaker, Hon. F., Auckland
White, F. A., Auckland
Whitson, R., Auckland
Wickens, H. J., Auckland
Wilkinson, G. T., Auckland
Will, W., Auckland
Williams, G. W., Remuera
Williams, S. J., Auckland
Williams, Ven. Archdeacon W. L.,
Gisborne

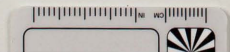
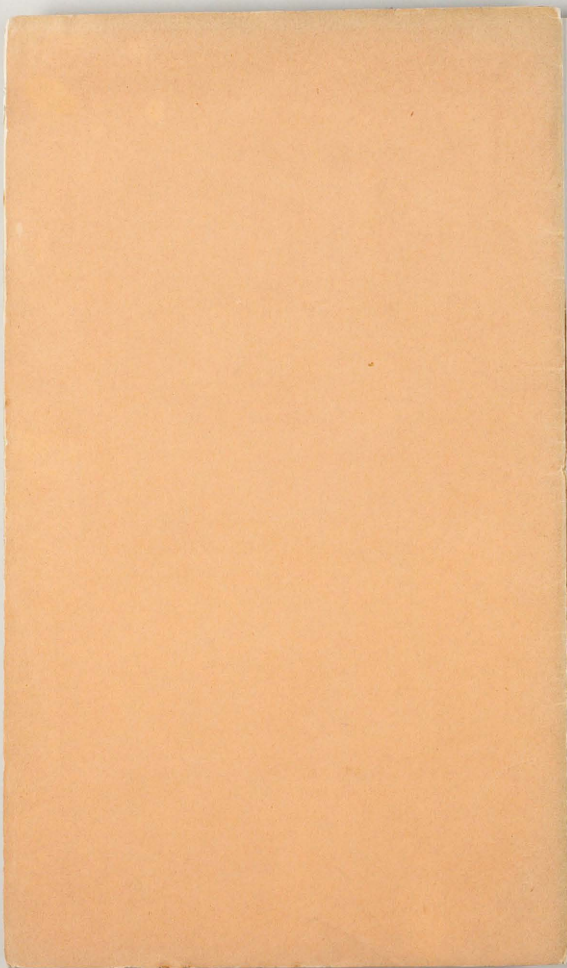
Williamson, Hon. Jas., Auckland
Williamson, C., Auckland
Wilson, D. C., Maungakarama
Wilson, J. J., Whangarei
Wilson, J. L., Auckland
Wilson, W. S., Auckland
Winks, J., Parnell
Worthington, H., Auckland
Wright, F. W., L.M.B., Toronto,
Parnell



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R U L E S
OF THE
AUCKLAND INSTITUTE

ESTABLISHED NOVEMBER 6, 1867.

INCORPORATED WITH THE NEW ZEALAND INSTITUTE,

JUNE 10, 1868.

I.—OBJECTS OF THE INSTITUTE.

1. The object of the Institute shall be the promotion of Science, Literature, and Art by means of a Museum and Library; and by lectures and meetings of the members, at which original papers may be read and conversations and discussions on scientific or literary subjects take place.

2. To advance researches into the natural history of the colony, and to assist in the development of its resources; also to aid in the collection of materials for the history and better understanding of the Maori race, and the allied races of the South Pacific.

3. To publish, or assist in the publication of, such papers on scientific or literary subjects as may be considered by the Council to be of sufficient importance.

4. Not less than one-third of the annual revenue of the Institute shall be applied to the maintenance and extension of the Museum and Library of the Institute.

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II.—MEMBERS.

5. Any person desiring to become a member of the Institute shall be proposed and seconded by two members of the Institute, and shall be balloted for at the next meeting of the Council.

6. An entrance fee of one guinea shall be paid by all members on their admission, and the annual subscription shall be one guinea. Members may at any time become life members by one payment of ten guineas, in lieu of future annual subscriptions.

7. All sums received for life subscriptions shall be invested, and only the interest arising from such investments shall be applied to the uses of the Institute.

8. Every new member shall receive due notification of his election; and be supplied with a copy of the Rules and with the last report of the Institute.

9. The annual subscription shall become due on the first day of April for the year then commencing. The entrance fee and first year's subscription of a new member shall become due on the day of his election.

10. An elected member shall not be entitled to any of the privileges of members, nor shall his name be placed on the roll of the Institute until he shall have paid his entrance fee and first annual subscription.

11. No member whose subscription is in arrear for twelve months shall vote or hold office or be entitled to any of the privileges of members. Any person whose subscription is two years in arrear shall have his name erased from the list of members, but he may be re-admitted on giving a satisfactory explanation to the Council and on payment of all arrears.

12. Every member shall have the privilege of reading at all ordinary meetings original papers on scientific or literary subjects, provided such papers have been previously submitted to, and been accepted by, the Council. He shall also have the privilege of introducing at such meetings two visitors, either personally or by orders signed by himself. He shall be entitled to the use of the Library in accordance with the Library Regulations, and to receive a copy of the Transactions of the New Zealand Institute for the year.

13. Members of Societies incorporated with the New Zealand Institute, when in the Province of Auckland, shall be entitled to attend the meetings of the Institute, and to the use of the Library in accordance with the Library Regulations.

14. Persons non-resident in the Provincial District of Auckland, who have been eminent benefactors of the Institute, or distinguished patrons and promoters of its objects, may be elected honorary members of the Institute, and shall have all the privileges of members without the payment of fees. Provided that the number of honorary members shall not exceed ten, and that not more than two shall be elected in any one year.

15. If it shall come to the knowledge of the Council that the conduct of a member is injurious to the character of the Institute, and if two-thirds of the whole Council (including the President and Vice-President) shall be satisfied, after an opportunity of defence has been afforded to the member, that this is the case; it may request him to resign, and in case of his refusal, may expel him from the Institute; and when so expelled he shall cease to be a member. In each case a record of the expulsion and the reason for it shall be entered on the Minutes,

III.—OFFICERS.

16. The officers of the Institute shall be a President, two Vice-Presidents, eleven members of Council, Secretary and Treasurer, and Auditor.

17. The President shall be elected annually by the members at the annual general meeting of the Institute hereinafter mentioned, and shall be eligible for re-election. It shall be his duty to preside at all meetings of the Institute and Council, and to superintend all the proceedings thereat; and generally to see to the execution of the rules and orders of the Society.

18. The Vice-Presidents shall consist of the two past Presidents of the Institute holding that office immediately prior to the President for the year.

19. The Council shall consist of eleven members, three of whom shall retire annually by ballot, and shall not be eligible

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for re-election for the space of one year. Their places shall be taken by three members to be elected at the annual general meetings of the Institute.

20. The President, Vice-Presidents, and Council, shall have the entire conduct and management of the affairs of the Institute, subject to the resolution of any general or special meeting of the Institute constituted in accordance with these rules.

21. The Secretary and Treasurer shall be appointed by the Council on such terms and with such remuneration as it shall decide. He shall conduct the correspondence of the Institute, take Minutes of the meetings, and enter them in proper books. He shall inscribe the names and addresses of all members in a book to be kept for that purpose, and from which no name shall be erased except by order of the Council. He shall have the custody of all the papers, books, and collections of the Institute and any Library and Museum under its charge. He shall receive all monies paid to the Institute, and deposit them in a Bank to be named by the Council, to the credit of an account in the name of the Auckland Institute, all cheques against which shall be signed by himself and one member of Council. He shall keep a detailed account of all receipts and expenditure in proper books, prepare a balance-sheet to be laid before the Council and included in its annual report, and produce his books if called upon by the Council.

22. The Auditor shall be elected at the annual general meetings of the Institute, and shall be eligible for re-election. It shall be his duty to audit the books of the Treasurer at such time prior to the annual general meeting as may be fixed by the Council, and to report upon them to the Council.

23. If any casual vacancy should occur among the officers or Council, the Council shall have power to appoint and elect any member to fill up such vacancy until the next annual general meeting, and the member so elected shall hold the same position in the Council as his predecessor.

24. It shall be in the power of the Council to employ any paid assistants that may be required for conducting the operations of the Institute, and to fix their duties and salaries.

IV.—MEETINGS.

25. An annual general meeting of the Institute, convened by advertisement or circular, shall be held in the month of February in each year; at which meeting not less than ten members must be present, otherwise it shall be adjourned by those present from time to time until the requisite number is obtained. It shall be the duty of the Council to place before this meeting a report of the proceedings of the Institute for the previous year, together with a statement of its funds and property, and of the receipts and expenditure; and at such meeting the members shall elect a President for the coming year, members of Council to take the place of those retiring, and an Auditor.

26. The Council shall have power to call a special general meeting when it shall deem it necessary; or on receiving a requisition in writing signed by not less than ten members and specifying the purpose for which the meeting is required. The purpose of the meeting shall be advertised at least ten days before the date of the meeting, and no other business shall be entertained at the meeting.

27. Ordinary meetings for the reading of papers and for transacting the general business of the Institute shall be called at such times as the Council shall decide.

28. The Council shall meet for the transaction of business at such time and place as may be appointed by the Secretary. Special meetings of the Council shall be called on the requisition of the President, a Vice-President, or any three members of the Council. The Secretary shall send due and sufficient notice of all meetings to each member.

29. The quorum at all meetings of the Institute shall be ten; the quorum at meetings of the Council shall be four.

30. In the absence of the President, a Vice-President or member of the Council shall be appointed to take the chair at meetings of the Institute or Council.

31. All questions arising at meetings of the Institute or Council shall be decided by a majority of votes, and in cases of equality the Chairman shall have an additional or casting vote.

V.—MISCELLANEOUS.

32. The Council may establish sections for the better prosecution of any branch of science, literature and art, and such sections may hold meetings, independently of the ordinary meetings of the Institute.

33. The Council shall have full power to make such By-laws—not being repugnant to the standing Rules of the Institute—as may be necessary for the regulation of the Institute, and for the management of its officers, servants, property, and affairs. Provided that such By-laws shall be presented to the annual general meeting next following for confirmation, alteration, or rejection by the members.

34. No new rule, or alteration or repeal of any existing rule, shall be made except at a special general meeting summoned for that purpose, and constituted in accordance with these Rules.

BY-LAWS.

1. Any member desiring to read a paper to the Institute shall forward it to the Secretary not later than the Tuesday prior to the meeting at which he wishes it to be read; and it shall be the duty of the Secretary to submit the same to the Council for its approval.

2. The decision as to what papers shall be read at any meeting, and the order in which they shall be read, shall rest with the Council, as also the arrangement of all business at the meetings.

3. As soon as each paper is read, the Chairman shall call on the members for any remarks they may wish to make, or questions that they may desire to ask, and then call on the author, or reader, for his reply.

4. No vote of thanks to any member for his paper shall be proposed.

5. Every paper read to the Institute shall be the property thereof, and immediately after it has been read shall be delivered to the Secretary.

6. No visitor shall speak at any meeting unless by the invitation of the Chairman.

7. All donations to the Library and Museum of the Institute shall be duly acknowledged, and mentioned in a list of donations to be appended to the annual report.

8. No expenditure above the sum of £5 shall be incurred by the Treasurer unless previously sanctioned by the Council.

9. Members shall have access daily to the Library and Reading-room at such hours as may be fixed by the Council, and may borrow periodicals on application to the Secretary or Custodian, but may not retain them for a longer period than seven days, except by permission of the Secretary. Provided that the last received number or set of each periodical shall not be taken from the Library.

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10. The Library of the Institute shall not be considered a lending Library, but members preparing papers for the meetings, or engaged in special researches, shall be allowed to remove books at the discretion of the Secretary. Provided that not more than four volumes shall be had at one time, or retained for a longer period than 21 days. Any member desiring to retain a specified work longer than the allotted time must apply to the Council for special permission.

11. All members removing books or periodicals must sign for the same in a book to be kept for the purpose; and shall be responsible for their safe return; or in the event of damage or loss, shall be liable to replace them at their own cost.

12. All books and periodicals which have been issued shall be called in by the Secretary at least twice a year, and it shall be the duty of the Secretary to report to the Council any infringement by members of the Rules relating to the Library, when the Council may take such action as it may think fit.

13. It shall be the duty of the Council to grant to students of Natural History such facilities for the examination of specimens in any Museum under the charge of the Institute as may be compatible with the proper preservation of the specimens.

At a General Meeting of the Auckland Institute, held on February 19, 1883, the above Rules and By-laws were adopted for the future governance of the Institute, all pre-existing Rules being repealed.